

August 2009



841 PLUS<sup>®</sup> Motor



UNIMOUNT<sup>®</sup> Motor

## PREMIUM EFFICIENT MOTORS

**NEMA<sup>®†</sup>**  
**Premium**

- **INDUSTRIAL CAST IRON MOTORS FOR HOSTILE, SEVERE ENVIRONMENTS**
  - **HOSTILE DUTY MOTORS**
  - **CORRO-DUTY<sup>®</sup> MOTORS**
  - **841 PLUS<sup>®</sup> MOTORS**
- **COMMERCIAL DUTY MOTORS USED IN OFFICE BUILDINGS, SCHOOLS, AND OTHER FEDERAL FACILITIES**
  - **OPEN DRIPPROOF MOTORS**
  - **UNIMOUNT<sup>®</sup> MOTORS**
- **HVAC MOTORS FOR AIR MOVING AND CONDITIONING APPLICATIONS**
  - **COOLING TOWER DUTY MOTORS**
  - **OPEN DRIPPROOF MOTORS**
  - **UNIMOUNT<sup>®</sup> MOTORS**

**E**MERSON offers an extensive line of industrial and commercial high efficiency electric motors, as well as motors that meet or exceed NEMA Premium<sup>®†</sup> standards. Using Emerson<sup>®</sup> electric motors built to NEMA Premium standards, allows facilities to maintain existing compliance to local electric codes and safety regulations.



**EMERSON. CONSIDER IT SOLVED.<sup>®</sup>**

## Product Overview

### 841 PLUS® Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.0 or 1.15 Service Factor
- 1 through 400 HP
- 2, 4, 6, and 8 Poles
- 143 through 447 Frame
- VBBX®† Bearing Isolators by Inpro/Seal
- Meets IEEE®† 841 GM7E-TA Specifications
- Five Year Warranty\*
- Footed and C-Face Footless

### UNIMOUNT® Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.25 Service Factor
- 1/4 through 30 HP
- 2, 4, 6, and 8 Poles
- 50 through 286 Frame
- C-Face, Footed and Footless
- Removable Base 180 Frame and Above
- F2 Field Assembly
- Close Coupled Ratings Available

### Hostile Duty Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1.00 and 1.15 Service Factor
- 1 through 350 HP
- 2, 4, 6, and 8 Poles
- 143 through 286 Frame
- Cast Iron Frame & Brackets
- Ball and Roller Bearing Options

### CORRO-DUTY® Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1 through 200 HP
- 2, 4, and 6 Poles
- 143 through 447 Frame
- All Cast Iron Construction

\*5-year warranty period pursuant to Emerson's standard limited warranty as set out on [www.usmotors.com/FL600/LimitedWarranty.pdf](http://www.usmotors.com/FL600/LimitedWarranty.pdf) □□□□

## Product Overview

### Open Dripproof Motors



**NEMA  
Premium**

#### Features

- Three Phase, 60 Hertz
- 1.0 and 1.15 Service Factor
- 1/4 through 400 HP
- 2, 4, 6, and 8 Poles
- 48 through 449 Frame
- Close Coupled Ratings Available

### Cooling Tower Duty Motors



#### Features

- Totally Enclosed Fan Cooled and Totally Enclosed Air Oven Options
- Three Phase, 60 Hertz
- 2 through 100 HP
- 4, 6, 4/8 Poles
- 145 through 449 Frame
- Single Speed and Two Speed Options
- Motors Available that Meet Specifications for Baltimore Aircoil Company, Inc., Evapco, Inc., and SPX Cooling Technologies, Inc.

### Hazardous Location Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase
- 1 to 200 HP
- 2, 4, and 6 Poles
- 143 to 447 Frame
- Single and Dual Label

### Automotive Duty U Frame Motors



#### Features

- Totally Enclosed Fan Cooled
- Three Phase, 60 Hertz
- 1/4 through 300 HP
- 2, 4, 6, 8 Poles
- 56 through 5008 Frame
- Motors Available that Meet GM-7EQ, GM-7EH, Ford EM1 and Chrysler NPEM-105 specifications

Note: For premium efficient vertical motor designs, visit [www.usmotors.com](http://www.usmotors.com).



## The Energy Independence and Security Act

### The new EISA regulation goes into effect in 2010

The Energy Independence and Security Act of 2007 (EISA) takes effect on December 19, 2010, changing mandatory efficiency levels for 3-phase electric motors up to 600 volts, which are manufactured or imported into the USA. Under the EISA regulation, electric motors previously required to meet EPart efficiency levels must move up to NEMA Premium<sup>†</sup> standards. These include general purpose motors from 1 to 200 horsepower. In addition, products not previously covered by EPart will be required to meet EPart levels. These include U-frame, design C, close coupled pump, footless, vertical solid shaft normal thrust, 8- pole motors, and 201 to 400 horsepower design B motors.



### Emerson has the motors you need to be EISA compliant today

Emerson<sup>®</sup> and U.S. Motors<sup>®</sup> brand NEMA Premium<sup>†</sup> electric motors meet the EISA regulation requirements, including: Open Dripproof (ODP) motors, UNIMOUNT<sup>®</sup> Totally Enclosed Fan Cooled (TEFC) motors, TEFC Hostile Duty motors, CORRO-DUTY<sup>®</sup> TEFC motors, 841 PLUS<sup>®</sup> TEFC motors, and TEFC Cooling Tower Duty motors. With Emerson's NEMA Premium<sup>†</sup> standard motors, you will be on your way to meeting the requirements of the new energy regulation. Plus, you will be cutting your energy costs each and every month.

### Want to learn more about motor efficiency and saving energy costs?

Emerson's online MotorPro<sup>®</sup> training tool features a new module on electric motor energy efficiency. Just visit [www.usmotors.com/motorpro](http://www.usmotors.com/motorpro), and choose Module 3 for complete details on energy laws and efficiency — and on how you can reduce your energy usage and operating costs.

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*Emerson (NYSE:EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal 2008 were \$24.8 billion and Emerson is ranked 94th on the Fortune 500 list of America's largest companies. For more information, visit [www.Emerson.com](http://www.Emerson.com).*



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